

CUMULATIVE INDEXES

CONTRIBUTING AUTHORS, VOLUMES 43-47

A

Acs, G., 45:375-408
Adhya, S., 47:967-96
Adler, J., 44:341-56
Aiberts, B. M., 45:721-46
Alworth, W. L., 43:889-922
Andersen, H. C., 47:359-83
Anderson, W. B., 44:491-522
Avron, M., 46:143-55

B

Baldwin, R. L., 44:453-75
Baltscheffsky, H., 43:871-97
Baltscheffsky, M., 43:871-97
Baltz, R. H., 45:11-37
Barden, R. E., 46:385-413
Barker, H. A., 47:1-33
Barondes, S. H., 43:147-68
Beadle, G. W., 43:1-13
Bernhardt, J., 46:117-41
Beyt'a, E. D., 45:113-42
Bishop, J. M., 47:35-88
Bisswanger, H., 45:143-66
Blankenship, R. E., 47:635-53
Bleich, H., 44:477-90
Bloch, K., 46:263-98
Boos, W., 43:123-46
Bornstein, P., 43:567-603
Boyer, P. D., 46:957-66
Bradshaw, R. A., 47:191-216
Brady, R. O., 47:687-713
Braun, A., 44:19-43
Braun, V., 43:89-121
Brawerman, G., 43:621-42
Brimacombe, R., 47:217-49
Brown, D. D., 43:667-93
Brown, M. S., 46:897-930
Bruce, T. C., 45:331-73
Burris, R. H., 45:409-25

C

Cantoni, G. L., 44:435-51
Carlson, S. S., 46:573-639

Casjens, S., 44:555-611
Chamberlin, M. J., 43:721-75
Chambon, P., 44:613-38
Champoux, J. J., 47:449-79
Chance, B., 46:967-80
Changeux, J.-P., 47:317-57
Chargaff, E., 44:1-18
Chou, P. Y., 47:251-76
Christman, J. K., 45:375-408
Clarke, M., 46:797-822
Cohn, Z. A., 46:669-722
Cormier, M. J., 44:255-72
Cowburn, D., 44:477-90
Coy, D. H., 47:89-128
Cozzarelli, N. R., 46:641-68
Craig, L. C., 44:477-90
Crane, F. L., 46:439-69
Cronan, J. E. Jr., 47:163-89
Crowther, R. A., 44:161-82
Cuatrecasas, P., 43:169-214
Czech, M. P., 46:359-84

D

Dahl, J. L., 43:327-56
Danielsson, H., 44:233-53
Davie, E. W., 44:799-829
Davies, D. R., 44:639-67
Davoli, D., 46:471-522
de Harven, E., 43:279-301
DeLuca, H. F., 45:631-66
Dempsey, M. R., 43:967-90
DePierre, J. W., 46:201-62
Dice, J. F., 43:835-69
DiRenzo, J. M., 47:481-532
Dolsy, E. A., 45:1-9
Drake, J. W., 45:11-37
Dubrow, R., 47:715-50

E

Edelstein, S. J., 44:209-32
Elgin, S. C. R., 44:725-74

Erlanger, B. F., 45:267-83
Ernst, L., 46:201-62; 981-95

F

Fareed, G. C., 46:471-522
Fasman, G. D., 47:251-76
Feldberg, R., 44:19-43
Felig, P., 44:933-55
Fessler, J. H., 47:129-62
Fessler, L. I., 47:129-62
Fillingame, R. H., 43:303-25
Fitch, W. M., 43:539-66
Fox, I. H., 47:655-86
Fridkin, M., 43:419-43
Fridovich, I., 44:147-59
Fry, M., 44:775-97
Fujikawa, K., 44:799-829
Fulco, A. J., 43:215-41
Furthmayr, H., 45:667-98

G

Gaber, B. P., 46:553-72
Geffer, M. L., 44:45-78
Goldberg, A. L., 43:835-69; 45:747-803
Goldberg, N. D., 46:823-96
Goldstein, J. L., 46:897-930
Goldyne, M., 47:997-1029
Gooday, G. W., 43:35-49
Goody, R. S., 45:427-65
Gospodarowicz, D., 45:531-58
Gottesman, M., 47:967-96
Gotto, A. M. Jr., 44:183-207; 47:751-77
Granström, E., 44:669-95; 47:997-1029
Green, K., 44:669-95
Groner, Y., 47:1079-1126
Grossman, L., 44:19-43
Gunsalus, I. C., 44:377-407

H

Haddox, M. K., 46:823-96

1308 CONTRIBUTING AUTHORS

- Hamberg, M., 44:669-95;
47:997-1029
- Hamlin, J. L., 47:715-50
- Hammarström, S., 44:669-95;
47:997-1029
- Hanson, K. R., 45:307-30
- Hantke, K., 43:89-121
- Haschmeyer, R. H., 43:279-301
- Hayaishi, O., 46:95-116
- Heidelberger, C., 44:79-121
- Heidmann, T., 47:317-57
- Hers, H. G., 45:167-89
- Herskho, A., 44:775-97
- Hokin, L. E., 43:327-56
- Hök, M., 47:385-417
- Humbert, J., 47:277-316
- I
- Inman, R. B., 43:605-19
- Inouye, M., 47:481-532
- J
- Jackson, R. L., 44:183-207
- Jensen, L. H., 43:461-74
- Johnson, G. S., 44:491-522
- Jovin, T. M., 45:889-920
- K
- Kasasatsu, H., 43:695-719
- Kelley, W. N., 47:655-86
- King, J., 44:555-611
- Kinsky, S. C., 46:49-67
- Kirkwood, S., 43:401-17
- Kirschner, K., 45:143-66
- Kletzien, R. F., 47:715-50
- Klug, A., 44:161-82
- Kok, B., 44:409-33
- Kornberg, R. D., 46:931-54
- Kornfeld, R., 45:217-37
- Kornfeld, S., 45:217-37
- Kraut, J., 46:331-58
- Kretsinger, R. H., 45:239-66
- Kurahashi, K., 43:445-59
- Kurland, C. G., 46:173-200
- L
- Lee, J., 44:255-72
- Lennarz, W. J., 45:95-112
- Liljas, A., 43:475-507
- Linn, T. W., 44:357-76
- Lin, E. C. C., 46:765-95
- Lindahl, U., 47:385-417
- Lodish, H. F., 45:39-72
- M
- Mahler, I., 44:19-43
- Malmsten, C., 47:997-1029
- Mannherz, H. G., 45:427-65
- Marchesi, V. T., 45:667-98
- Margolash, E., 43:539-66
- Marks, P. A., 47:419-48
- Mason, T. L., 43:51-87
- McIntosh, J. R., 45:699-720
- McRorie, R. A., 43:777-803
- Meister, A., 45:559-604
- Meyers, C. A., 47:89-128
- Mildvan, A. S., 43:357-99
- Mitchell, P., 46:996-1005
- Mooser, G., 44:889-931
- Moran, J. S., 45:531-58
- Morris, D. R., 43:303-25
- Morrisett, J. D., 44:183-207
- Morrison, M., 45:861-88
- Müller-Eberhard, H. J., 44:697-724
- N
- Nakamura, K., 47:481-532
- Nathans, D., 44:273-93
- Neufeld, E. F., 44:357-76
- Neumann, E., 46:117-41
- Nicolotti, R. A., 46:49-67
- O
- Ochoa, S., 45:191-216
- P
- Padlan, E. A., 44:639-67
- Pan, M. L., 47:779-817
- Pappenheimer, A. M. Jr., 46:69-94
- Pardee, A. B., 47:715-50
- Parson, W. W., 47:635-53
- Pastan, I. H., 44:491-522
- Patchornik, A., 43:419-43
- Pearlman, R. E., 47:277-316
- Pederson, T. C., 44:377-407
- Perry, R. P., 45:605-29
- Peters, K., 46:523-51
- Plaut, G. W. E., 43:899-922
- Porter, J. W., 45:113-42
- Postma, P. W., 44:523-54
- Pownall, H. J., 47:751-77
- Pressman, B. C., 45:501-30
- R
- Racker, E., 46:1006-14
- Radding, C. M., 47:847-80
- Radmer, R., 44:409-33
- RajBhandary, U. L., 45:805-60
- Ratner, S., 46:1-24
- Revel, M., 47:1079-1126
- Rich, A., 45:805-60
- Richards, F. M., 46:523-51
- Rifkind, R. A., 47:419-48
- Rose, I. A., 47:1031-78
- Rosen, O. M., 44:831-87
- Rosenthal, K. S., 46:723-63
- Rossmann, M. G., 43:475-507
- Rubin, C. S., 44:831-87
- S
- St. John, A. C., 45:747-803
- Salemme, F. R., 46:299-329
- Salsner, W. A., 43:923-65
- Samuelsson, B., 44:669-95;
47:997-1029
- Schally, A. V., 47:89-128
- Schatz, G., 43:51-87
- Schnoes, H. K., 45:631-66
- Schonbaum, G. R., 45:861-88
- Segal, D. M., 44:639-67
- Shapiro, L. J., 44:357-76
- Shadkin, A. J., 43:643-65
- Sheinin, R., 47:277-316
- Sigman, D. S., 44:889-931
- Silbert, D. F., 44:315-39
- Silverstein, S. C., 45:375-408;
408; 46:669-722
- Simoni, R. D., 44:523-54
- Singer, S. J., 43:805-33
- Sinsheimer, R. L., 46:415-38
- Sjövall, J., 44:233-53
- Slater, E. C., 46:1015-26
- Sligar, S. G., 44:377-407
- Smith, C. M., 43:899-922
- Smith, H. O., 44:273-93
- Smith, L. C., 47:751-77
- Snyder, J. A., 45:699-720
- Soffer, R. L., 45:73-94
- Spiro, T. G., 46:553-72
- Spudich, J. A., 46:797-822
- Steiner, D., 43:509-38
- Steinman, R. M., 46:669-722
- Stenflo, J., 46:157-72
- Stern, R., 43:667-93
- Steffler, G., 47:217-49
- Storm, D. R., 46:723-63

CONTRIBUTING AUTHORS 1309

Stryer, L., 47:819-46	van den Bosch, H., 43:243-77	Wimmer, M. J., 47:1031-78
Suttle, J. W., 46:157-72	Villarejo, M. R., 44:295-313	Winter, H. C., 45:409-25
Swanson, P. E., 46:723-63	Vinograd, J., 43:695-719	Wittmann, H. G., 47:217-49
T	W	Wood, H. G., 46:385-413
Tabor, C. W., 45:285-306	Waechter, C. J., 45:95-112	Wu, R., 47:607-33
Tabor, H., 45:285-306	Walsh, C., 47:881-931	Wu, T. T., 43:539-66
Tager, H. S., 43:509-38	Wampler, J. E., 44:255-72	Wyatt, G. R., 47:779-817
Takemori, A. E., 43:15-33	Weintraub, H., 44:725-74	Y
Tate, S. S., 45:559-604	Weissbach, A., 46:25-47	Yamamoto, K. R., 45:721-46
Tomita, M., 45:667-98	Weissbach, H., 45:191-216	Younghusband, H. B., 43:605-19
Tyler, B., 47:1127-62	White, T. J., 46:573-639	Z
U	Wickner, S. H., 47:1163-91	Zabin, I., 44:295-313
Ueda, K., 46:95-116	Williams, W. L., 43:777-803	Zellitch, I., 44:123-45
Umbarger, H. E., 47:533-606	Williamson, A. R., 45:467-500	
V	Wilson, A. C., 46:573-639	
Vance, D., 46:263-98	Wilson, D. B., 47:933-65	

CHAPTER TITLES, VOLUMES 43-47

PREFATORY

Recollections	G. W. Beadle	43:1-13
A Fever of Reason: The Early Way	E. Chargaff	44:1-18
An Autobiography	E. A. Dolsy	45:1-9
A Long View of Nitrogen Metabolism	S. Ratner	46:1-24
Explorations of Bacterial Metabolism	H. A. Barker	47:1-33

AMINO ACIDS

Amino Acid Metabolism in Man	P. Felig	44:933-55
Amino Acid Biosynthesis and Its Regulation	H. E. Umbarger	47:533-606

PEPTIDES

Peptide Synthesis	M. Fridkin, A. Patchornik	43:419-43
Biosynthesis of Small Peptides	K. Kurahashi	43:445-59
Hypothalamic Regulatory Hormones	A. V. Schally, D. H. Coy, C. A. Meyers	47:89-128

PROTEINS

Binding and Transport Proteins

The Plasma Lipoproteins: Structure and Metabolism	L. C. Smith, H. J. Pownall, A. M. Gotto Jr.	47:751-77
---------------------------------------------------	---------------------------------------------	-----------

Biosynthesis

The Biosynthesis of Mitochondrial Proteins	G. Schatz, T. L. Mason	43:51-87
The Biosynthesis of Collagen	P. Bornstein	43:567-603
Translational Control of Protein Synthesis	H. F. Lodish	45:39-72
Soluble Factors Required for Eukaryotic Protein Synthesis	H. Weissbach, S. Ochoa	45:191-216
Biosynthesis of Procollagen	J. H. Fessler, L. I. Fessler	47:129-62

Contractile Proteins

1310 CHAPTER TITLES

- Proteins of Contractile Systems
Eukaryotic DNA Polymerases
- Metabolism
Intracellular Protein Degradation in Mammalian and Bacterial Cells
Intracellular Protein Degradation in Mammalian and Bacterial Cells: Part 2
- Post-Translational Modification
Post-Translational Cleavage of Polypeptide Chains: Role in Assembly
Basic Mechanisms in Blood Coagulation
Protein Phosphorylation
Poly(ADP-Ribose) and ADP-Ribosylation of Proteins
- Special Classes
Lipoproteins: Structure and Function
- Cooperative Interactions of Hemoglobin
Chromosomal Proteins and Chromatin Structure
Multifunctional Proteins
Calcium-Binding Proteins
Biochemistry and Physiology of Microtubules
Diphtheria Toxin
Structure and Function of Cytochromes C
Polymyxin and Related Peptide Antibiotics
- The Low-Density Lipoprotein Pathway and Its Relation to Atherosclerosis
Insect Plasma Proteins
- Structure
X-Ray Structural Studies of Ferredoxin and Related Electron Carriers
X-Ray Studies of Protein Interactions
Information Content of Protein Amino Acid Sequences
- Protein Complementation
Intermediates in Protein Folding Reactions and the Mechanism of Protein Folding
Comparative Aspects of Glycoprotein Structure
Empirical Predictions of Protein Conformation
- CARBOHYDRATES
Unusual Polysaccharides
The Role of Polyprenol-Linked Sugars in Glycoprotein Synthesis
- The Control of Glycogen Metabolism in the Liver
Glycerol Utilization and Its Regulation in Mammals
Glycosaminoglycans and Their Binding to Biological Macromolecules
- LIPIDS
Metabolic Alterations of Fatty Acids
Phosphoglyceride Metabolism
Regulation of Steroid Biosynthesis
Control Mechanisms in the Synthesis of Saturated Fatty Acids
Molecular Biology of Bacterial Membrane Lipids
- H. G. Mannherz, R. S. Goody 45:427-65
A. Weissbach 46:25-47
- A. L. Goldberg, J. F. Dice 43:835-69
A. L. Goldberg, A. C. St. John 45:747-803
- A. Hershko, M. Fry 44:775-97
E. W. Davie, K. Fujikawa 44:799-829
C. S. Rubin, O. M. Rosen 44:831-87
- O. Hayaishi, K. Ueda 46:95-116
- J. D. Morrisett, R. L. Jackson, A. M. Gotto Jr. 44:183-207
S. J. Edelstein 44:209-32
S. C. R. Elgin, H. Weintraub 44:725-74
K. Kirschner, H. Bisswanger 45:143-66
R. H. Kretsinger 45:239-66
J. A. Snyder, J. R. McIntosh 45:699-729
A. M. Pappenheimer Jr. 46:69-94
F. R. Salemme 46:299-329
D. R. Storm, K. S. Rosenthal, P. E. Swanson 46:723-63
- J. L. Goldstein, M. S. Brown 46:897-930
G. R. Wyatt, M. L. Pan 47:779-817
- L. H. Jensen 43:461-74
A. Liljas, M. G. Rossmann 43:475-507
- T. T. Wu, W. M. Fitch, E. Margoliash 43:539-66
I. Zabin, M. R. Villarejo 44:295-313
- R. L. Baldwin 44:453-75
R. Kornfeld, S. Kornfeld 45:217-37
P. Y. Chou, G. D. Fasman 47:251-76
- S. Kirkwood 43:401-17
- C. J. Waechter, W. J. Lenarz 45:95-112
H. G. Hers 45:167-89
- E. C. C. Lin 46:765-95
- U. Lindahl, M. Høök 47:385-417
- A. J. Fulco 43:215-41
H. van den Bosch 43:243-77
M. E. Dempsey 43:967-90
- K. Bloch, D. Vance 46:263-98
J. E. Cronan Jr. 47:163-89

NUCLEOTIDES, NUCLEOSIDES, PURINES, AND PYRIMIDINES

The Role of Adenosine and 2'-Deoxyadenosine in Mammalian Cells

I. H. Fox, W. N. Kelley 47:655-86

RNA

Eukaryotic Messenger RNA

G. Brawerman 43:621-42

Eukaryotic Nuclear RNA Polymerases

P. Chambon 44:613-38

Glutathione and Related γ -Glutamyl Compounds:

Biosynthesis and Utilization

A. Meister, S. S. Tate 45:559-604

Processing of RNA

R. P. Perry 45:605-29

Transfer RNA: Molecular Structure, Sequence, and Properties

A. Rich, U. L. RajBhandary 45:805-60

Control of Transcription Termination

S. Adhya, M. Gottesman 47:967-96

DNA

Recombination

Genetic Recombination: Strand Transfer and

Mismatch Repair

C. M. Radding 47:847-80

Repair

Enzymatic Repair of DNA

L. Grossman, A. Braun, R. Feldberg, I. Mahler 44:19-43

Recognition Mechanisms of DNA-Specific

Enzymes

T. M. Jovin 45:889-920

Replication

Replication of Circular DNA in Eukaryotic Cells

H. Kasamatsu, J. Vinograd 43:695-719

The Selectivity of Transcription

M. J. Chamberlin 43:721-75

DNA Replication

M. L. Gelfer 44:45-78

Eukaryotic DNA Polymerases

A. Weissbach 46:25-47

The Mechanism of Action of Inhibitors of DNA

Synthesis

N. R. Cozzarelli 46:641-68

Some Aspects of Eukaryotic DNA Replication

R. Sheinin, J. Humbert, R. E. Pearlman 47:277-316

S. H. Wickner 47:1163-91

DNA Replication Proteins of Escherichia Coli

Restriction Modification

Restriction Endonucleases in the Analysis and

Restructuring of DNA Molecules

D. Nathans, H. O. Smith 44:273-93

Structure

The Electron Microscopy of DNA

H. B. Younghusband, R. B. Inman 43:605-19

DNA Sequencing Techniques

W. A. Salser 43:923-65

Structure of Chromatin

R. D. Kornberg 46:931-54

Proteins That Affect DNA Conformation

J. J. Champoux 47:449-79

DNA Sequence Analysis

R. Wu 47:607-33

ENZYMES

Mechanisms and Kinetics

Mechanism of Enzyme Action

A. S. Mildvan 43:357-99

Concepts and Perspectives in Enzymic Stereochemistry

K. R. Hanson 45:307-30

Some Pertinent Aspects of Mechanism as Determined with Small Molecules

T. C. Bruice 45:331-73

Serine Proteases: Structure and Mechanism of

Catalysis

J. Kraut 46:331-58

Chemical Approaches to the Study of Enzymes

Catalyzing Redox Transformations

C. Walsh 47:881-931

Mechanisms of Enzyme-Catalyzed Group Transfer Reactions

M. J. Wimmer, I. A. Rose 47:1031-78

Regulation

Regulation of Amino Acid Decarboxylation

D. R. Morris, R. H. Fillin-game 43:303-25

Specific Enzymes and Classes

The Sodium-Potassium Adenosinetriphosphatase

J. L. Dahl, L. E. Hokin 43:327-56

1312 CHAPTER TITLES

Superoxide Dismutases	I. Fridovich	44:147-59
Oxygenase-Catalyzed Biological Hydroxylations	I. C. Gunsalus, T. C. Pederson, S. G. Sligar	44:377-407
Biological Methylation: Selected Aspects	G. L. Cantoni	44:435-51
Basic Mechanisms in Blood Coagulation	E. W. Davie, K. Fujikawa	44:799-829
Peroxidase-Catalyzed Halogenation	M. Morrison, G. R. Schonbaum	45:861-88
Recognition Mechanisms of DNA-Specific Enzymes	T. M. Jovin	45:889-920
Eukaryotic DNA Polymerases	A. Weissbach	46:25-47
Biotin Enzymes	H. G. Wood, R. E. Barden	46:385-413
Hydroquinone Dehydrogenases	F. L. Crane	46:439-69
<u>Structure (Protein)</u>		
Electron Microscopy of Enzymes	R. H. Haschemeyer, E. de Harven	43:279-301
Chemical Studies of Enzyme Active Sites	D. S. Sigman, G. Mooser	44:889-931
METABOLISM		
The Control of Glycogen Metabolism in the Liver	H. G. Hers	45:167-89
Glycerol Utilization and Its Regulation in Mammals	E. C. C. Lin	46:765-95
Sphingolipidoses	R. O. Brady	47:687-713
Post-Transcriptional and Translational Controls of Gene Expression in Eukaryotes	M. Revel, Y. Groner	47:1079-1126
Regulation of the Assimilation of Nitrogen Compounds	B. Tyler	47:1127-62
BIOENERGETICS		
Electron Transport Phosphorylation	H. Baltscheffsky, M. Baltscheffsky	43:871-97
Bioluminescence: Recent Advances	M. J. Cormier, J. Lee, J. E. Wampler	44:255-72
Oxidative Phosphorylation and Photophosphorylation	P. D. Boyer, B. Chance, L. Ernster, P. Mitchell, E. Racker, E. C. Slater	46:955-1026
The Photochemical Electron Transfer Reactions of Photosynthetic Bacteria and Plants	R. E. Blankenship, W. W. Parson	47:635-53
BIOCHEMICAL GENETICS		
Methods of Gene Isolation	D. D. Brown, R. Stern	43:667-93
Recombinant DNA	R. L. Sinsheimer	46:415-38
Biochemical Evolution	A. C. Wilson, S. S. Carlson, T. J. White	46:573-639
CANCER		
Chemical Carcinogenesis	C. Heidelberger	44:79-121
The Biochemistry of Mutagenesis	J. W. Drake, R. H. Baltz	45:11-37
CELL ORGANELLES		
Biosynthesis of Mitochondrial Proteins	G. Schatz, T. L. Mason	43:51-87
Chemotaxis in Bacteria	J. Adler	44:341-56
Inherited Disorders of Lysosomal Metabolism	E. F. Neufeld, T. W. Lim, L. J. Shapiro	44:357-76
Structure and Function of the Bacterial Ribosome	C. G. Kurland	46:173-200
Ribosome Structure	R. Brimacombe, G. Stöffler, H. G. Wittmann	47:217-49
CELL WALLS		
The Outer Membrane Proteins of Gram-Negative Bacteria: Biosynthesis, Assembly, and Functions	J. M. DiRienzo, K. Nakamura, M. Inouye	47:481-532

DEVELOPMENT AND DIFFERENTIATION

Biochemistry of Mammalian Fertilization

- 1,4-Diaminobutane (Putrescine), Spermidine,
and Spermine
Growth Factors in Mammalian Cell Culture

- Erythroleukemic Differentiation
Animal Cell Cycle

R. A. McRorie, W. L. Williams 43:777-803

C. W. Tabor, H. Tabor 45:285-306
D. Gospodarowicz, J. S. Moran 45:531-58
P. A. Marks, R. A. Rifkind 47:419-48
A. B. Pardee, R. Dubrow, J. L. Hamlin, R. F. Kletzien 47:715-50

DISEASE, BIOCHEMISTRY OF

Inherited Disorders of Lysosomal Metabolism

- Diphtheria Toxin
The Low-Density Lipoprotein Pathway and Its
Relation to Atherosclerosis

DRUGS, ANTIBIOTICS, ANTIMETABOLITES

Polymyxin and Related Peptide Antibiotics

E. F. Neufeld, T. W. Lim, L. J. Shapiro 44:357-76
A. M. Pappenheimer Jr. 46:69-94

J. L. Goldstein, M. S. Brown 46:897-930

D. R. Storm, K. S. Rosenthal, P. E. Swanson 46:723-63

HORMONES

- Fungal Sex Hormones
Peptide Hormones
Methods for the Study of the Conformation of
Small Peptide Hormones and Antibiotics in
Solution

Role of Cyclic Nucleotides in Growth Control

Prostaglandins

G. W. Gooday 43:35-49
H. S. Tager, D. F. Steiner 43:509-38

L. C. Craig, D. Cowburn, H. Bleich 44:477-90

I. H. Pastan, G. S. Johnson, W. B. Anderson 44:491-522

B. Samuelsson, E. Granström, K. Green, M. Hamberg, S. Hammarström 44:669-95

Angiotensin-Converting Enzyme and the Regulation of Vasoactive Peptides

Molecular Basis of Insulin Action

Cyclic GMP Metabolism and Involvement in Biological Regulation

Prostaglandins and Thromboxanes

R. L. Soffer 45:73-94
M. P. Czech 46:359-84

N. D. Goldberg, M. K. Haddox 46:823-96

B. Samuelsson, M. Goldyne, E. Granström, M. Hamberg, S. Hammarström, C. Malmsten 47:997-1029

IMMUNOBIOCHEMISTRY

Three-Dimensional Structure of Immunoglobulins

- Complement
The Biological Origin of Antibody Diversity
Immunological Properties of Model Membranes

ISOPRENOID COMPOUNDS

- Bile Acid Metabolism
Biochemistry of Polyisoprenoid Biosynthesis

MEMBRANES

- Biochemistry of Bacterial Cell Envelopes
Membrane Receptors
Molecular Organization of Membranes
Genetic Modification of Membrane Lipid
Growth Factors in Mammalian Cell Culture

The Red Cell Membrane

Immunological Properties of Model Membranes

D. R. Davies, E. A. Padlan, D. M. Segal 44:639-67

H. J. Müller-Eberhard 44:697-724

A. R. Williamson 45:467-500

S. C. Kinsky, R. A. Nicolotti 46:49-67

H. Danielsson, J. Sjövall 44:233-53

E. D. Beyda, J. W. Porter 45:113-42

V. Braun, K. Hanke 43:89-121

P. Cuatrecasas 43:169-214

S. J. Singer 43:805-33

D. F. Silbert 44:315-39

D. Gospodarowicz, J. S. Moran 45:531-58

V. T. Marchesi, H. Furthmayr, M. Tomita 45:667-98

S. C. Kinsky, R. A. Nicolotti 46:49-67

Physical Chemistry of Excitable Biomembranes	E. Neumann, J. Bernhardt	46:117-41
Enzyme Topology of Intracellular Membranes	J. W. DePierre, L. Ernster	46:201-62
Chemical Cross-Linking Reagents and Problems in Studies of Membrane Structure	K. Peters, F. M. Richards	46:523-51
Structural and Functional Properties of the Acetylcholine Receptor Protein in Its Purified and Membrane-Bound States	T. Heidmann, J.-P. Changeux	47:317-57
Probes of Membrane Structure	H. C. Andersen	47:359-83
METHODOLOGY		
Electron Microscopy of Enzymes	R. H. Haschemeyer, E. de Harven	43:279-301
Electron Microscopy of DNA	H. B. Younghusband, R. B. Inman	43:605-19
Structural Analysis of Macromolecular Assemblies by Image Reconstruction from Electron Micrographs	R. A. Crowther, A. Klug	44:161-82
Laser Raman Scattering As a Probe of Protein Structure	T. G. Spiro, B. P. Gaber	46:553-72
Fluorescence Energy Transfer As a Spectroscopic Ruler	L. Stryer	47:819-46
MUSCLE AND CONTRACTILE PROTEINS		
Nonmuscle Contractile Proteins: The Role of Actin and Myosin in Cell Motility and Shape Determination	M. Clarke, J. A. Spudich	46:797-822
NEUROBIOLOGY AND NEUROCHEMISTRY		
Biochemistry of Drug Dependence	A. E. Takemori	43:15-33
Synaptic Macromolecules: Identification and Metabolism	S. H. Barondes	43:147-68
Photoregulation of Biologically Active Macromolecules	B. F. Erlanger	45:267-83
Nerve Growth Factor	R. A. Bradshaw	47:191-216
NITROGEN FIXATION		
Nitrogenase	H. C. Winter, R. H. Burris	45:409-26
NUTRITION		
1,4-Diaminobutane (Putrescine), Spermidine, and Spermine	C. W. Tabor, H. Tabor	45:285-306
Growth Factors in Mammalian Cell Culture	D. Gospodarowicz, J. S. Moran	45:531-58
PHOTOBIOLOGY AND PHOTOSYNTHESIS		
Pathways of Carbon Fixation in Green Plants	I. Zelitch	44:123-45
Energy Capture in Photosynthesis: Photosystem II	R. Radmer, B. Kok	44:409-33
Photoregulation of Biologically Active Macromolecules	B. F. Erlanger	45:267-83
Energy Transduction in Chloroplasts	M. Avron	46:143-55
RECEPTORS		
Biochemistry of Drug Dependence	A. E. Takemori	43:15-33
Membrane Receptors	P. Cuatrecasas	43:169-214
Steroid Receptors: Elements for Modulation of Eukaryotic Transcription	K. R. Yamamoto, B. M. Alberts	45:721-46
TOXINS AND TOXIC AGENTS		
Diphtheria Toxin	A. M. Pappenheimer Jr.	46:69-94
Poly(ADP-Ribose) and ADP-Ribosylation of Proteins	O. Hayaishi, K. Ueda	46:95-116
TRANSPORT		
Bacterial Transport	W. Boos	43:123-46
The Energetics of Bacterial Active Transport	R. D. Simoni, P. W. Postma	44:523-54
Endocytosis	S. C. Silverstein, R. M.	

Cellular Transport Mechanisms	Steinman, Z. A. Cohn	46:669-722
VIRUSES AND BACTERIOPHAGES	D. B. Wilson	47:933-65
Animal RNA Viruses: Genome Structure and Function	A. J. Shaŕkin	43:643-65
Virus Assembly	S. Casjens, J. King	44:555-611
The Reovirus Replicative Cycle	S. C. Silverstein, J. K. Christman, G. Acs	45:375-408
Molecular Biology of Papovaviruses	G. C. Fareed, D. Davoli	46:471-522
Retroviruses	J. M. Bishop	47:35-88
VITAMINS, GROWTH FACTORS, ESSENTIAL METABOLITES		
Biosynthesis of Water-Soluble Vitamins	G. W. E. Plaut, C. M. Smith, W. L. Alworth	43:899-922
Biochemistry of Polyisoprenoid Biosynthesis 1,4-Diaminobutane (Putrescine), Spermidine, and Spermine	E. D. Beytia, J. W. Porter	45:113-42
Biological Applications of Ionophores	C. W. Tabor, H. Tabor	45:285-306
Metabolism and Mechanism of Action of Vitamin D	B. C. Pressman	45:501-30
Vitamin K-Dependent Formation of γ -Carboxy- glutamic Acid	H. F. DeLuca, H. K. Schnoes	45:631-66
	J. Stenflo, J. W. Suttie	46:157-72